

PROGRAM

Annual Meeting Ohio Valley Society of Toxicology 2025



Friday, November 14, 2025

University of Louisville
Clinical Translational Research Building (CTR)
Room 101 - 102
505 S Hancock St, Louisville, KY 40202



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OVSOT Annual Meeting Agenda

Friday, November 14, 2025

- 7:30 - 8:30 am **Registration, Breakfast, Check-in, and Poster Set-up**
CTR Building Lobby
- 8:30 - 8:40 am **Welcoming Remarks** – CTR 101/102
J. Christopher States, PhD, Vice Dean for Research
UofL School of Medicine (Moderator: Sandra Diven)
- 8:40 - 8:45 am **Meeting Logistics & Acknowledgement of Sponsors** – CTR 101/102
Sandra Diven, OVSOT President
- 8:45 - 9:15 am **Featured Speaker: Idoia Meaza Isusi, PhD** – CTR 101/102
Early-Stage Investigator Platform Presentation Awardee
(Moderator: Sherleen Adamson, OVSOT Vice President)
- 9:15 - 10:15 am **Doctoral Platform Presentations/Judging** – CTR 101/102
(Moderator: Priyanka Baloni, OVSOT Treasurer)
- 10:15 - 10:25 am **SOT Mentoring Opportunities** – CTR 101/102
Johnny Wise, PhD, University of Toledo
- 10:30 - 12:00 pm **Poster Presentations/Judging** – CTR Lobby
(**Odd #:** 10:30am - 11:15am; **Even #:** 11:15am - 12:00pm)
(Moderators: Andrew Keebaugh, Thivanka Muthumalage, Ashley Mudd, Karen Elsass)
- 12:00 - 1:30 pm **Lunch & “Lunch with an Expert”**
(**Academia:** Rm 101/102; **Industry:** Rm 123; **Government:** Rm 125)
(Moderators: Megan Ballinger, Samuel Cochran, Samuel Vielee)
- 1:30 - 2:30 pm **Postdoctoral Trainee Platform Presentations/Judging** – CTR 101/102
(Moderator: Andrew Keebaugh, OVSOT Vice President-Elect)
- 2:30 – 3:15 pm **Big Picture Science**
(Moderators: Ashley Mudd and Karen Elsass)
- 3:15 – 3:30 pm **Break**
- 3:30 – 4:30 pm **Keynote Speaker**
Patricia Silveyra, PhD, Anthony D. Pantaleoni Eminent Scholar
Professor and Chair, Dept. of Occupational and Environmental Health
Indiana University School of Public Health-Bloomington
(Moderator: Sandra Diven)
- 4:30 – 4:45 pm **Announcement of Awards and Closing**
(Presenters: Sandra Diven, Sherleen Adamson, Andrew Keebaugh)



VISITOR INFORMATION

University of Louisville
Health Sciences Campus
Clinical & Translational
Research Building
Room 101 - 102
**505 S Hancock St,
Louisville, KY 40202**



Parking



Besides on-street metered parking available on both **Hancock Street** and **Muhammad Ali Boulevard**, there is public parking available within the **620 Parking Garage**, which is located directly behind KCCTRB and can be accessed from **Clay Street** at the public lot entrance (Clay Street runs parallel to Hancock Street between Muhammad Ali and Chestnut Street). **Please park on the bottom level only (Level 1).** *Please note: The student/employee permit parking entrance off Muhammad Ali Boulevard is for permit holders only.*



Area Hotels

Home2 Suites by Hilton Louisville Downtown NuLu
240 South Hancock Street, Louisville, Kentucky, 40202
(502) 561-0460

Tempo by Hilton Louisville Downtown NuLu
710 E Jefferson St, Louisville, KY 40202
(502) 901-9355

Hotel Genevieve
730 E Market St, Louisville, KY 40202
(502) 676-7199

Stellar Suites
822 E Market St, Louisville, KY 40206
(502) 706-4193



PRESENTERS

Please see the 2025 OVSOT Meeting Abstract Book for abstracts of all posters and the presentations outlined on the following pages.



Early-Stage Investigator Platform Presentation

Featured Speaker

Idoia Meaza Isusi, PhD

Environmental and Genetic
Toxicology,
Department of Pharmacology
and Toxicology,
School of Medicine,
University of Louisville,



Abstract #1

“Mechanisms of hexavalent chromium-induced carcinogenesis: DNA double-strand breaks and DNA repair inhibition in a guinea pig model”



Doctoral Student Platform Presentations

Abstract #2

Evangeline Schott

Ohio State University

“Lipocalin 2 Production Mitigates Ozone Induced Lung Injury and Inflammation”

Abstract #3

Oluwanifemi Esther Bolatimi

University of Louisville

“Sex-Specific Hepatic Effects of and Environmentally Relevant Dioxin Mixture in a Humanized AHR Mouse Model”

Abstract #4

Wagner Tamagno

Purdue University

“Lipid-Mediated Transgenerational Effects of Developmental Pb Exposure on Cognitive Impairments and Anxiety-Like Behavior in Zebrafish Larvae”



Postdoctoral Trainees Platform Presentations

Abstract #5

Abigail Ekuban

University of Louisville

“Sex-Dependent Hepatotoxicity of Trichloroethylene in Humanized PPAR α Mice Fed a Western Diet”

Abstract #6

Ahmed Abdelbaset-Ismail

University of Louisville

“FGF1 ^{Δ HBS} prevents DICT in tumor-bearing young mice through inhibiting cardiac fatty acid oxidation and improving vasculature integrity”

Abstract #7

Samuel J. Cochran

Ohio State University

“CD163 Mediated Resolution of Ozone-Induced Pulmonary Injury and Inflammation”



Big Picture Science Presentations

Abstract #18

Samuel Vielee

University of Louisville

“Pathways of Cr(VI) Toxicity Change with Concentration in a *Caenorhabditis Elegans* Model: The Importance of Exposure Parameters in Toxicological Models”

Abstract #19

Sydnee Dressel

University of Toledo

“Oxidative Stress and Apoptosis Induced by MDMA and Synthetic Cathinones in HepG2 Cells”

Abstract #20

Zianne Olverson

Ohio State University

“Electronic Cigarette Exposure During Pregnancy Causes Uteroplacental and Fetal Impairments”

Abstract #40

Hamza Jamal

University of Louisville

“Low Concentration Hexavalent Chromium Induced Neuroinflammation in Rats after a 90 Day Drinking Water Exposure”



Big Picture Science Presentations

Abstract #56

Aadil Umerani

Wright State University

“Functional Inhibitors of Acid Sphingomyelinase Reduce UVB-Induced Erythema in Rosacea via Topical Imipramine and Amitriptyline: A Pilot Clinical Trial”

Abstract #57

Andrea Arroyo

University of Louisville

“The RAD50 Zinc Hook Motif as a Vulnerable Target in Heavy Metal-Induced Genotoxicity”

Abstract #58

Kassidy Stewart

University of Louisville, “Sex- and Diet-Specific Effects of a Low-Dose Dioxin Mixture on Adipose-Liver Axis Disruption”

Abstract #59

Liam Buchanan

University of Louisville

“Hexavalent Chromium [Cr(VI)] Induces Blood-Brain Barrier Dysfunction and DNA Damage in Endothelial Cells: Using a Toxic Aging Coin to Assess Cr(VI) Neurotoxicity”



Keynote Presentation

Keynote Speaker

**Patricia Silveyra, PhD, MSc,
ATSF**

Anthony D. Pantaleoni
Eminent Scholar

Professor and Chair
Department of Occupational and
Environmental Health

Adjunct Professor
Indiana University School of Public
Health-Bloomington



Biography

Patricia Silveyra, PhD, MSc, ATSF, is Professor and Chair of the Department of Environmental and Occupational Health and the Anthony D. Pantaleoni Eminent Scholar at the Indiana University School of Public Health–Bloomington, and an adjunct professor in the IU School of Medicine. Her research focuses on how sex and gonadal hormones influence lung inflammation and responses to environmental exposures such as air pollution and vaping. She has led NIH-, foundation-, and university-funded projects and is deeply committed to mentoring the next generation of scientists.



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